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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/705,303	11/10/2003	Wen Chang Wang	PUSA031021 (15749/444)	4409
23595	7590 12/09/2004		EXAM	INER
NIKOLAI & MERSEREAU, P.A. 900 SECOND AVENUE SOUTH			MULLINS, BURTON S	
SUITE 820			ART UNIT	PAPER NUMBER
MINNEAPOL	IS, MN 55402		2834	
			DATE MAILED: 12/09/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

			OT			
	Application No.	Applicant(s)				
	10/705,303	WANG, WEN CHAN	WANG, WEN CHANG			
Office Action Summary	Examiner	Art Unit				
	Burton S. Mullins	2834				
The MAILING DATE of this communication  Period for Reply	on appears on the cover sheet w	ith the correspondence addr	ess			
A SHORTENED STATUTORY PERIOD FOR ITHE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica  - If the period for reply specified above is less than thirty (30) day  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, b  - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION.  CFR 1.136(a). In no event, however, may a lition.  s, a reply within the statutory minimum of thir period will apply and will expire SIX (6) MON y statute, cause the application to become Al	reply be timely filed  ty (30) days will be considered timely.  ITHS from the mailing date of this common the mailing date of this common than the mailing date of this common than the mailing date of the common than the co	nunication.			
Status						
1) Responsive to communication(s) filed or	l					
2a) This action is <b>FINAL</b> . 2b) ∑	This action is non-final.					
3) Since this application is in condition for a closed in accordance with the practice u			nerits is			
Disposition of Claims						
4) ☐ Claim(s) 1-10 is/are pending in the applie 4a) Of the above claim(s) is/are w 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	ithdrawn from consideration.					
Application Papers		•				
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection			4.404(1)			
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for f a) All b) Some * c) None of:  1. Certified copies of the priority doce 2. Certified copies of the priority doce 3. Copies of the certified copies of the application from the International * See the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have beer Bureau (PCT Rule 17.2(a)).	Application No  received in this National St	tage			
Attachment(s)						
1) Notice of References Cited (PTO-892)	· —	Summary (PTO-413)				
<ol> <li>Notice of Draftsperson's Patent Drawing Review (PTO-53)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date</li> </ol>	····/	s)/Mail Date nformal Patent Application (PTO-1	52)			

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#### **DETAILED ACTION**

## Specification

1. The disclosure is objected to because of the following informalities: On p.5, line 4, "magnetic shearing" is vague. Appropriate correction is required.

## Claim Rejections - 35 USC § 112

2. Claim 5 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The term "wind shear edge" is vague and indefinite because it is not clear what structural limitation is imparted to the claim by this term.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Huang (US 6,731,072). In Fig.1, Huang teaches a prior art generating device, comprising: a wheel rim (not shown, affixed to hubcap body 10, Fig.1); a coil unit 13 mounted on the wheel rim, i.e., on the hubcap body 10; a rotor (permanent magnet) 12 mounted in the coil unit; and an

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impeller structure 11 mounted on an end of the rotor to rotate therewith (c.1, lines 10-26).

Regarding claims 2-4, the impeller structure is provided with a plurality of arc-shaped blades
111 arranged in a radiating manner (Fig.1). Regarding claim 5, as best understood, the distal
end of the fan blades 111 comprise a "wind shear edge" since the shape of the blades 111
causes shear. Regarding claim 6, the rotor and the impeller structure are co-axial with the
wheel rim. Regarding claim 7, the coil unit 13 is fixedly mounted on a central portion of the
wheel rim, i.e., hubcap 10. Regarding claim 8, note plural light emitting members 14 each
mounted on the wheel rim and each electrically connected to the coil unit. Regarding claims 910, the claimed "velocity differential", "eddy resistance effect of a wind power" and
"magnetic variation between the coil unit and the rotor" are inherent when permanent magnet
12 and impeller 11, driven by air that passes through vent holes 101, rotate relative to the coil
13 (c.1, lines 15-26).

#### **Conclusion**

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. In particular, Chien discloses an electric wheel generator including impeller 521 with blades 5211 and magnet 523 (Fig.4) that rotates relative to coil 522 to generate current therein.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Burton S. Mullins whose telephone number is 571-272-2029. The examiner can normally be reached on Monday-Friday, 9 am to 5 pm. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Burton S. Mullins Primary Examiner Art Unit 2834 Page 4

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06 December 2004